IN THE SPECIFICATION:

The specification as amended below with replacement paragraphs shows added text with underlining and deleted text with ~~strikethrough~~.

Please REPLACE the paragraph beginning at page 3, line 19, with the following paragraph:

In the AGC control, the correction of the ASE 1001 is carried out by two approaches. One approach is to add a corrected voltage of the ASE 1001 to a voltage output by the PD 902 to obtain a gain set in comparison with the voltage of the PD 906. ~~Other~~ Another approach is to subtract the corrected voltage of the ASE 1001 from the voltage of the PD 902 and the voltage of the PD 906 so as to obtain a set gain.

Please REPLACE the paragraph beginning at page 6, line 19 and 22, with the following paragraph:

The optical switch 121 switches the input optical signal between sides of an EDF 130, which is an element to be tested (D.U.T), or an optical power meter 131. The optical power meter 131 detects an optical power of the optical signal with a ~~band~~ bandwidth of, for example, 1.55 micrometer (μm) (1582.0 nm to 1595.5 nm) supplied from the optical signal sources 101a to 101n. The WDM filter 123 multiplexes the optical signal with a ~~band~~ bandwidth of, for example, 1.55 μm (1582.0 nm to 1595.5 nm) supplied from the signal light sources 101a to 101n and an optical signal of, for example, 1472 nm from an excitation LD 141 so as to supply the multiplexed optical signal to one end of the EDF 130.

Please REPLACE the paragraph beginning at page 8, lines 5 and 6, with the following paragraph:

Fig. 3 is a graph to explain the signal input power dependency of the ASE power of EDF and the gross output power. A gross input power 302 (Pin, total) is plotted along the horizontal axis, an ASE power 301 (solid line) and a gross output power 302 (dotted line) are plotted along the vertical axis. The gain was constant (31 dB), and the temperature was 25 °C. As the gross input power was changed from -21 dBm to -11 dBm, the ASE power 301 changed from 11.5 dBm to 3 dBm. If an ASE amount of 11.5 dBm, when the gross input power was -21 dBm, is made ~~fix~~ fixed and ASE correction is performed, a target gross output when the gross input power is -16 dBm becomes: